

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-16 (canceled).

Claim 17 (previously presented). An absolute measuring system for determining angles or paths, comprising:

a main voltage supply;

an encoder receiving during normal operation a voltage supply from said main voltage supply, said encoder being switched to an auxiliary mode and receiving an auxiliary voltage and uses less energy when said main voltage supply fails, said encoder only determining a coarse determination of a measured value made during the auxiliary mode of operation; and

a chargeable memory connected to said encoder for providing the auxiliary voltage.

Claim 18 (previously presented). The measuring system according to claim 17, wherein said chargeable memory is a battery.

Claim 19 (previously presented). The measuring system according to claim 17, wherein said chargeable memory is a chargeable condenser.

Claim 20 (previously presented). The measuring system according to claim 17, wherein said chargeable memory contains a chargeable battery and a chargeable condenser.

Claim 21 (previously presented). The measuring system according to claim 17, wherein said chargeable memory contains a chargeable condenser and a non-chargeable battery.

Claim 22 (previously presented). The measuring system according to claim 17, wherein said chargeable memory is disposed at least in a vicinity of said encoder.

Claim 23 (previously presented). The measuring system according to claim 22, wherein said chargeable memory is disposed in said encoder.

Claim 24 (previously presented). The measuring system according to claim 22, further comprising a connector coupled to said encoder, said chargeable memory disposed on an encoder side of said connector.

Claim 25 (previously presented). The measuring system according to claim 17, wherein said chargeable memory is charged by solar cells.

Claim 26 (previously presented). The measuring system according to claim 17, wherein said chargeable memory is charged by electromagnetic waves.

Claim 27 (previously presented). The measuring system according to claim 17, wherein said chargeable memory is charged by transformer coupling.

Claim 28 (previously presented). The measuring system according to claim 17, wherein said chargeable memory is charged by a motion induced field induction.

Claim 29 (previously presented). The measuring system according to claim 17, further comprising:

an external auxiliary power supply; and

cables connecting said external auxiliary power supply and said main voltage supply to said chargeable memory, said chargeable memory being charged by at least one of said main voltage supply and said external auxiliary power supply.

Claim 30 (currently amended). The measuring system according to claim 29, ~~wherein said cables are~~ further comprising fiber optic cables for measured data exchange disposed at least on a side close to said encoder.

Claim 31 (previously presented). The measuring system according to claim 17, further comprising:

a system controller; and

a transmitter/receiver transferring signals between said encoder and said system controller via radio waves.

Claim 32 (previously presented). The measuring system according to claim 31, wherein said transmitter/receiver reduces radio transmissions during battery operation when the voltage supply fails.